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**ABSTRACT**

**IMPROVEMENTS IN OR RELATING TO THE CALIBRATION OF  
INFRA RED CAMERAS**

5 Described herein is an improved reference surface (10) which can be  
used for calibrating cooled infra red detectors. The reference surface (10)  
comprises a plurality of corner cube units (12, 14, 16, 18, 20, 22) which reflect  
radiation directly incident on them. The surface of each corner cube unit (12,  
14, 16, 18, 20, 22) is partially reflective and partially emissive so that, when  
10 imaged by a cryogenically cooled detector, the reference surface (10) appears  
as a black body source at a lower temperature than the actual temperature  
thereof.

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(Fig.1)